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APPLICATION NO.	F	ILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/814,528		03/31/2004	Tom E. Pearson	ITL.1105US (P18745)	6903
21906	7590	01/24/2006		EXAMINER	
TROP PRU 8554 KATY		•	GIRARDI, VANESSA MARY		
SUITE 100	TREE	1	ART UNIT	PAPER NUMBER	
HOUSTON,	TX 770)24	2833		

DATE MAILED: 01/24/2006

Please find below and/or attached an Office communication concerning this application or proceeding.

		Application No.	Applicant(s)
		10/814,528	PEARSON ET AL.
	Office Action Summary	Examiner	Art Unit
		Vanessa Girardi	2833
Period for	The MAILING DATE of this communication app	pears on the cover sheet with the c	orrespondence address
A SHC WHICI - Extens after S - If NO - Failure Any re	PRIENT STATUTORY PERIOD FOR REPLY HEVER IS LONGER, FROM THE MAILING DATE of time may be available under the provisions of 37 CFR 1.13 (6) MONTHS from the mailing date of this communication. Deriod for reply is specified above, the maximum statutory period verone to reply within the set or extended period for reply will, by statute ply received by the Office later than three months after the mailing a patent term adjustment. See 37 CFR 1.704(b).	ATE OF THIS COMMUNICATION 36(a). In no event, however, may a reply be timused and will expire SIX (6) MONTHS from a cause the application to become ABANDONE.	N. nely filed the mailing date of this communication. D (35 U.S.C. § 133).
Status			
2a)⊠ 3)□	Responsive to communication(s) filed on <u>19 De</u> This action is FINAL . 2b) This Since this application is in condition for allowar closed in accordance with the practice under E	action is non-final. nce except for formal matters, pro	
Dispositio	on of Claims		
5)□ 6 6)⊠ 6 7)□ 7 8)□ 6 Application	Claim(s) 1-25 is/are pending in the application. (a) Of the above claim(s) is/are withdray. Claim(s) is/are allowed. Claim(s) 1-25 is/are rejected. Claim(s) is/are objected to. Claim(s) is/are objected to. Claim(s) are subject to restriction and/or are subject to restriction and/or are specification is objected to by the Examine. The specification is objected to by the Examine. Applicant may not request that any objection to the Replacement drawing sheet(s) including the correct. The oath or declaration is objected to by the Examine.	wn from consideration. r election requirement. er. a)⊠ accepted or b)□ objected to drawing(s) be held in abeyance. Section is required if the drawing(s) is objected to the drawing(s)	e 37 CFR 1.85(a). jected to. See 37 CFR 1.121(d).
Priority u	nder 35 U.S.C. § 119		
a)[Acknowledgment is made of a claim for foreign All b) Some * c) None of: 1. Certified copies of the priority document Certified copies of the priority document None of the certified copies of the priority document none of the certified copies of the priority document none of the certified copies of the priority document none of the certified copies of the priority document none of the priority none	s have been received. s have been received in Applicati rity documents have been receive u (PCT Rule 17.2(a)).	on No ed in this National Stage
2) Notice 3) Inform	(s) e of References Cited (PTO-892) e of Draftsperson's Patent Drawing Review (PTO-948) nation Disclosure Statement(s) (PTO-1449 or PTO/SB/08) No(s)/Mail Date	4) Interview Summary Paper No(s)/Mail Do 5) Notice of Informal F 6) Other:	

DETAILED ACTION

1. The previously held objections within pages 6 and 8 of the Specification have been overcome.

The previously held objections to claims 2, 13 and 14 have been overcome.

The Examiner agrees the amendments made to the Specification overcome the previously held objection of the Drawings whereby those originally submitted are acceptable.

Claim Rejections

2. Amendment of claims 2 and 13 does not place any of the claims in a condition for allowance therefore, claims 1-25 remain rejected on the grounds outlined in the previous office action of October 3, 2005.

Response to Applicant's Remarks

3. Applicant contends that Ciambrone's infrared soldering tool holds no value in teachings pertaining to the instant invention of a socket. The Examiner wishes to respectfully return to the Ciambrone reference (Col. 2, lines 10-13), quoted here for your convenience; "The present invention may be of benefit to <u>any manufacturing process using infrared reflow soldering</u> or leaded and combination chip and leaded components."

The instant invention is attempting to improve the process of surface mount techniques that rely on a surface mount oven which generates both convective heat and infrared radiation, which is well-known in the art as infrared reflow soldering.

4. To further substantiate the statement of this process being *well-known* in the art, the Examiner respectfully turns to Edwin et al. (US 5,262,594), cited and relied upon in the previous office action to reject claim 22 of the instant invention. The Edwin et al. reference was filed over 15 years ago. At that point in time, understanding of surface mount techniques employing

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infrared reflow ovens was still being established, as evidenced by the detailed teachings throughout the Edwin et al. reference of the process, its pitfalls and desired outcomes. Turning specifically to (Col. 6, lines 8-17) particularly the statement that IR ovens produce 60% of the heat by natural convection energy and the remaining 40% is generated by infrared energy.

- 5. Further stated is the desire to minimize the amount of time required for passing the PCB through the oven in an attempt to offset potential damage to portions of the PCB not able to withstand such temperatures. This statement makes obvious the need for materials that are virtually invisible to infrared energy thereby facilitating the desired outcome of quickly and accurately applying 40% more of the heat generated by an IR oven as well as allowing for the quick dissipation of this heat once soldering of desired components is complete, thereby minimizing the potential of damage to heat-sensitive components.
- 6. In response to Applicant's remark that there is no suggestion to combine the references, the Examiner recognizes that references cannot be arbitrarily combined and that there must be some reason why one skilled in the art would be motivated to make the proposed combination of primary and secondary references. *In re.Nomiya, 184 USPQ 607 (CCPA 1975)*. However, there is no requirement that a motivation to make the modification be expressly articulated. The test for combining references is what the combination of disclosures taken as a whole would suggest to one of ordinary skill in the art. *In re McLaughlin, 170 USPQ 209 (CCPA 1971)*. References are evaluated by what they suggest to one versed in the art, rather than by their specific disclosures. *In re Bozek, 163 USPQ 545 (CCPA) 1969*. As discussed above, these two references would suggest, to one versed in the art, an integrated socket component that would produce a more reliably soldered product overcoming some of the known pitfalls associated with reflow soldering techniques using an infrared oven.

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Conclusion

Any inquiry concerning this communication or earlier communications from the examiner

should be directed to Vanessa Girardi: Telephone number (571) 272-5924.

Monday – Thursday 7 a.m. - 5:30 p.m. (EST)

If attempts to reach the examiner by telephone are unsuccessful, the examiner's

supervisor, Paula Bradley can be reached on (571) 272-2800 ext 33.

The fax phone number for the organization where this application or proceeding is

assigned is (571) 273-8300.

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PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

VG Art Unit 2833 January 18, 2006

THO D. TA

PRIMARY EXAMINER